CATEX Checklist

Action Name:	**Verizon Wireless Communications Antenna and GPS at Liberty Loan Building**
Action Location:	401 14th Street SW Washington, DC
Action Description:	Verizon Wireless proposes to construct and maintain a wireless telecommunications facility on the roof the GSA Liberty Loan Building
Category [CATEX #]:	5.4(n) Installation of antennae consistent with GSA Bulletin FPMR D-242, "Placement of commercial antennas on Federal property".

Part A: All Checklist CATEX Actions	**YES**	**NO**	**Need Data**
A. Is the action likely to be inconsistent with any applicable Federal, State, Indian tribal, or local law, regulation, or standard designed to protect any aspect of the environment?		X	
B. Is the action likely to have results that are inconsistent with locally desired social, economic, or other environmental conditions?		X	
C. Is the action likely to result in the use, storage, release and/or disposal of toxic, hazardous, or radioactive materials, or in the exposure of people to such materials?		X	
D. Is the action likely to adversely affect a significant aspect of the natural environment?		X	
E. Is the action likely to adversely affect a significant aspect of the socio-cultural environment?		X	
F. Is the action likely to generate controversy on environmental grounds?		X	
G. Is there a high level of uncertainty about the action's environmental effects?		X	
H. Is the action likely to do something especially risky to the human environment?		X	
I. Is the action part of an ongoing pattern of actions (whether under the control of GSA or others) that are cumulatively likely to have adverse effects on the human environment?		X	
J. Is the action likely to set a precedent for, or represent a decision in principle about, future GSA actions that could have significant effects on the human environment?		X	
K. Is the action likely to have some other adverse effects on public health and safety or on any other environmental media or resources that are not specifically identified above?		X	

CONCLUSIONS:

1. The action is a CATEX and requires no further environmental review.
2. The action is a CATEX but requires further review under one or more other environmental authorities (list).
3. The action requires an EA.
4. The action requires an EIS.

6/5/2014

Program Staff — Date
Bruce Paley

6/6/2014

REQA Representative — Date
Suzanne Hill

CHECKLIST CATEX WRITE-UP
Verizon Wireless Communications Antenna and GPS at Liberty Loan Building

Project Description:
The Liberty Loan Building (LLB) which is owned by U.S. General Services Administration (GSA) is located at 401 14th Street, SW Washington, DC.

Cellco Partnership (Verizon) is licensed by the Federal Communications Commission (FCC) to provide wireless service, including licenses to deploy its network in the Greater Washington, D.C. metropolitan area. Verizon is expanding its wireless telecommunications capabilities in Washington, DC and has identified the LLB as a site that would enable Verizon to meet its coverage objectives for the immediate areas as part of their network.

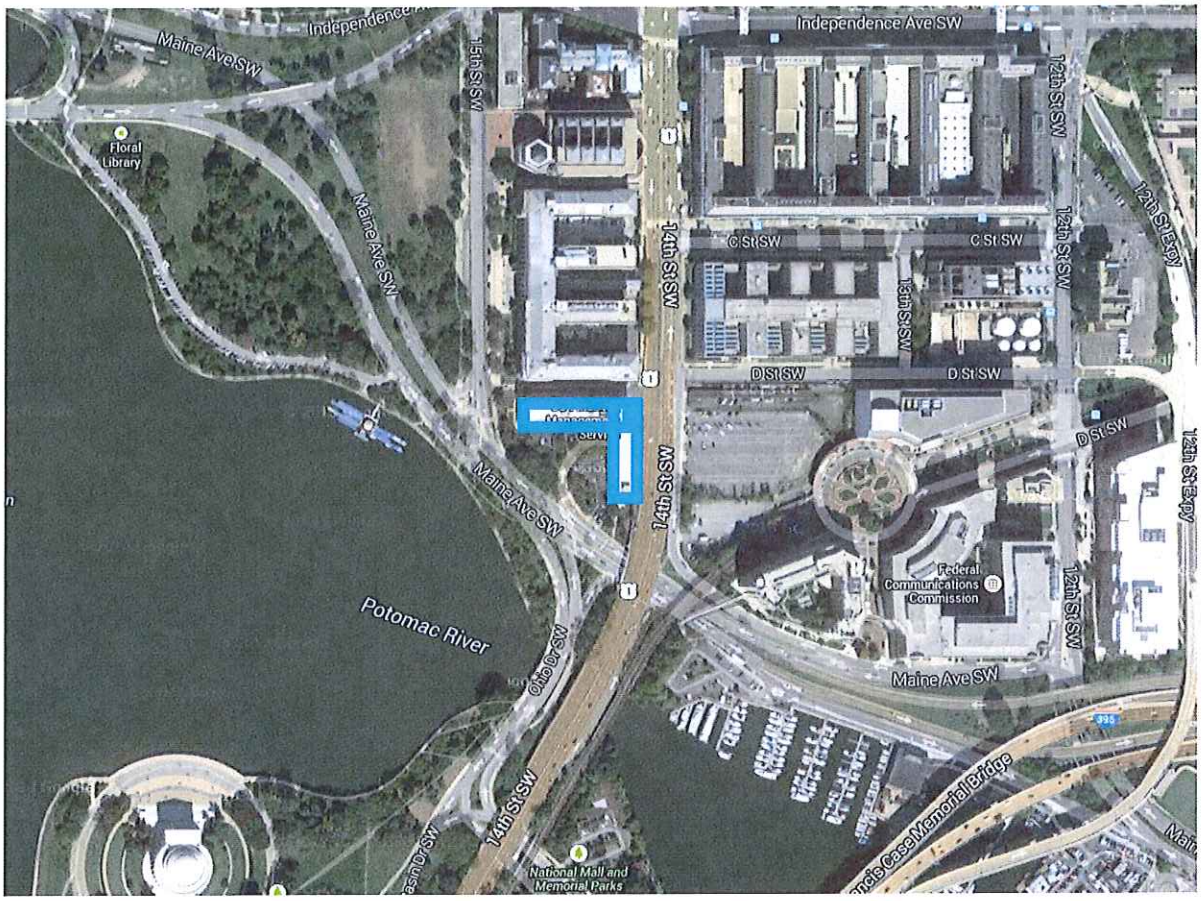
Verizon proposes to construct and maintain a wireless telecommunications facility on the roof the GSA Liberty Loan Building. The proposed facility will include two (2) panel antennas, one (1) GPS antenna, and an equipment cabinet on the roof of the LLB. In addition to the Verizon Wireless' proposed antennas, there are several other existing panel antennas on the west façade parapet wall.

The two proposed panel antennas are to be flush-mounted to the parapet wall on the west side of the building, at a radiation center elevation of 72'. The mounting materials for all panel antennas will be stainless steel. One of the proposed panel antennas will be 24" x 12.5" x 7.1" and the other will be 24" x 6.7" x 4.1". Antennas will not exceed the height of the parapet wall to which they are mounted, and all panel antennas and mounting materials will be painted to blend with the background in order to minimize visual impact. One GPS antenna, measuring 5" in height and 3.2" in diameter will be mounted at the equipment platform and will not be visible at all from the ground.

A steel platform, approximately 5' x 5' will be placed on the roof to hold the equipment cabinet needed to operate the antennas. The platform and equipment will not extend above the elevation height of the parapet wall, and will thus not be visible from the ground.

The transmitting frequencies of the antennas will be between the 698-896 MHz (cellular) and the 1710-2170 MHz (PCS/LTE) ranges.

The proposed installation is designed to bring enhanced Verizon Wireless in-vehicle service along Maine Avenue toward Independence Avenue, along the east and north sides of the Tidal Basin, as well as in-building service for the office buildings along those routes. There are no other viable buildings on which these antennas could be placed, or which would be accepted by the government. This site is on the rooftop of LLB in Washington, DC. Security will require at least 72 hours prior to arrival of installers for security check in and for an escort to unlock doors of the roof. The construction of this project is scheduled to start and complete in the summer of 2014. No government funds are being utilized for the installation of the proposed antennas.



. All antennas will be painted to match the paint already existing on the building façade.

A. Is the action likely to be inconsistent with any applicable Federal, State, Indian tribal, or local law, regulation, or standard designed to protect any aspect of the environment?

This action will comply with all applicable Federal, State, Indian tribal and local laws, standards and regulations designed to protect the environment. All work will be performed in accordance with all applicable codes and regulations. The installation and equipment will be well-maintained for its continued safe operation. The proposed project would comply with Radiofrequency (RF) Exposure Guidelines with Federal Communications Commission (FCC) and Occupational Safety & Health Administration (OSHA) regulations. These proposed antennas and GPS will not generate any solid waste or water and air pollutants. Installation of the proposed antennas will be done in compliance with the International Building Code 2012. Verizon will conduct regular periodic inspections of the site to ensure its continued, safe operation. The roof is a secured area and is not accessible by the general public.

B. Is the action likely to have results that are inconsistent with locally desired social, economic or other environmental conditions?

The action would be consistent with locally desired social, economic, and other environmental conditions. The action is not likely to have any adverse affect on the traffic patterns, access and circulation, traffic volume, utilities, or be inconsistent with existing zoning.

C. Is the action likely to result in the use, storage, release and/or disposal of toxic, hazardous, or radioactive materials or in the exposure of people to such materials?

The Radio Frequency (RF) equipment and signage location is co-located with Nextel. Nextel currently has six (6) panel antennas and AT&T has nine (9) panel antennas on the LLB's rooftop. This action would add two (2) more Verizon antennas and one (1) GPS panels on the existing rooftop.

The frequency band will not interfere with AM and FM radio, television or satellite television reception. Verizon will identify and control any potential RF Emissions hazards associated with its RF equipment. This will be implemented throughout system design, acquisition, installation, operation and maintenance of the antennas and GPS panels. A RF/EME Hazard Assessment Report (RF Safety Report) was completed for the Liberty Loan Building by RSI Corporation dated August 30, 2013. The electromagnetic energy emissions (EME) assessment for the communications site was completed following recommendations of FCC Office of Engineering and Technology and the Occupational Safety and Health Administration (OSHA). The purpose of the EME hazard assessment at the communications site was to determine the ambient levels of EME in areas of concern. In addition, the assessment was conducted in order to detect and document whether EME fields present at the site are above FCC standards for human exposure to radio frequency (RF) emissions. The assessment also determines what areas should be defined as "hot" zones, or areas that contain RF levels above trained RF worker, and general public limits. The RF Report concluded that Verizon proposed panel antennas will be in compliance with FCC guidelines for Uncontrolled RF Environments.

The FCC Maximum Permissible Exposure Law defines two different types of exposure to RF fields: General Population/Uncontrolled Exposure and Controlled/Occupational Environment (Trained Workers Only). General Population/Uncontrolled Exposure applies to situations in which the public may be exposed or in which persons who are exposed as a part of their employment who may have not been made fully aware of the potential for exposure or cannot exercise control over their exposure. Controlled/Occupational Environments are locations where there is exposure that may be incurred by persons who are made "fully aware" of the potential for exposure and can exercise control over their exposure.

According to the RF Safety Report, RF emission readings in all assessed areas were well below the FCC Uncontrolled/General Population limit for human exposure to radiofrequency energy per 47 CFR §1.1301 through §1.1319. Based on actual readings taken at the site, all accessible areas meet the FCC compliance guidelines for human exposure to radiofrequency emissions. Elevated RF emission levels are predicted within three (3) feet of the proposed Verizon panels on the rooftop. Actual readings should be taken to verify the levels once the equipment is operational.

At the time of the RF assessment there were RF Caution and AT&T Information 1 signs at AT&T's Beta and Gamma sectors as well as a RF Notice sign at the site access door. These signs will also serve for the new antennas.

D. Is the action likely to adversely affect a significant aspect of the natural environment?

The action would not likely to adversely affect a significant aspect of the natural environment and would be located on the existing rooftop.

According to the FEMA Flood Insurance Rate Maps (Map Number 1100010018C, revised September 27, 2010), the building is located in Zone X (shaded) area of moderate flood hazard usually the area between the limits of the 100-year and 500-year floods. GSA's Floodplain Management Desk Guide

provides direction regarding GSA's compliance with Executive Order 11988. GSA's Floodplain Management Desk Guide in response to the evaluation question "What must be done if the action will not affect a floodplain?" states the following, "If a proposed project will not directly or indirectly contribute to floodplain development... nothing more is needed to comply with EO 11988 and this Desk Guide." The action of installing wireless telecommunications to the building would not represent additional development within a floodplain. Therefore, the action would comply with EO 11988

E. Is the action likely to adversely affect a significant aspect of the socio-cultural environment?

The Verizon proposes to add to an existing wireless telecommunications facility on the roof of the LLB. The proposed placement of the antennas and the attachment methods minimizes damage to the masonry by locating anchors in mortar joints. According to the D.C. State Historic Preservation Office (SHPO) letter June 5, 2014 the project will have no adverse effect on historic properties.

F. Is your action likely to generate controversy on environmental grounds?

The action is not likely to generate controversy on environmental grounds. This proposed action will have no adverse impacts on historic and cultural sites, air pollution, visual elements, traffic, and neighborhood quality and will therefore not likely to generate environmental controversy.

G. Is there a high level of uncertainty about your action's environmental effects?

There is not a high level of uncertainty about the action's environmental effects.

H. Is the action likely to do something especially risky to the human environment?

The proposed antenna panels would comply with FCC regulation OET 65. The new coverage would enhance the quality for the area, including the 14th Street Bridge, Independence Avenue, I-395, and Tidal Basin; increase capacity (especially during peak times and in the event of emergency or another natural disaster); enhance in-building coverage for buildings in the surrounding area. Federal Entities – vital to U.S. Government operation – in close proximity which will benefit from the site include: Department of the Treasury, FCC, Bureau of Engraving and Printing, U.S. Department of Agriculture, Immigration and Customs Enforcement, Park Service (responsible for the Mall), among others.

I. Is the action part of an ongoing pattern of actions (whether under the control of GSA or others) that are cumulatively likely to have adverse effects on the human environment?

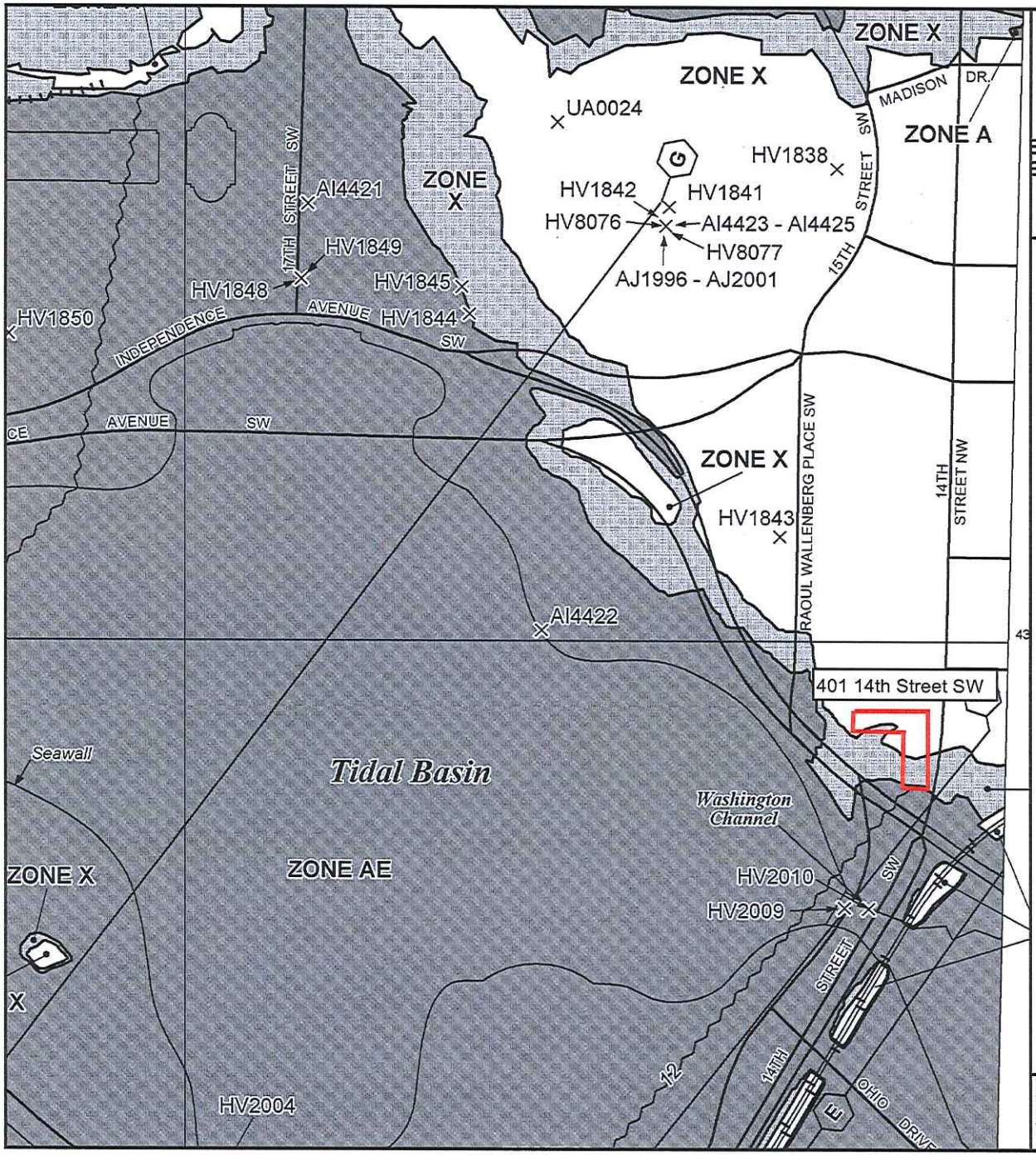
The action is not part of an ongoing pattern of actions that are cumulatively likely to have adverse effects on the human environment.

J. Is the action likely to set a precedent for, or represent a decision in principle about future GSA actions that could have significant effects on the human environment?

The action would not likely to set a precedent for, or represent a decision in principle about, future GSA actions that could have significant effects on the human environment. The installation of these two antennas is consistent with GSA Bulletin FPMR D-242, "Placement of commercial antennas on Federal property".

K. Is the action likely to have some other adverse effect on public health and safety or on any other environmental media or resources that are not specifically identified above?

The action is not likely to have some other adverse effect on public health and safety or on any other environmental media or resources that are not specifically identified above. Personnel that require access in very close proximity (within 3 feet) to the radiating element of the antennas would employ Lock-Out/Tag-Out procedures to isolate the RF source prior to servicing equipments. Personnel would have proper training to control exposure during maintenance and installation if locked out/tagged out procedures cannot be exercised to antennas that are in close proximity. The use of RF Personal Protection Monitors that match all frequencies will be mandated for persons performing such work.



MAP SCALE 1" = 500'

0 500 1,000 FEET

0 150 300 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0018C

FIRM

FLOOD INSURANCE RATE MAP

DISTRICT OF COLUMBIA, WASHINGTON, D.C.

PANEL 18 OF 100

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DISTRICT OF COLUMBIA	110001	0018	C

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
1100010018C

MAP REVISED
SEPTEMBER 27, 2010

Federal Emergency Management Agency